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[BOOK] Distributed systems

AS Tantenbaum, M Van Steen, - 2002 - Citeseer

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... High Performance Networks • Clusters and Computational Grids Course Outline ... Guests discuss Laptop TV/PC Hotel wireless network ... IP, ATM virtual circuits Data link Responsible for transmission of packets between **nodes** that are directly connected by a physical link ...

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A grid-enabled MPI: Message passing in heterogeneous distributed computing systems

J Foster, - Proceedings of the 1998 ACM/IEEE ..., 1998 - portal.acm.org

[\[PDF\] from psu.edu](#)

... environment of Figure 1 might well first reduce within each SMP **node**, then within ... DeKalb, III, and a Resident Associate Guest in the Mathematics and Computer Science Division ... interests include techniques required to execute message passing programs in **grid** environments. ...

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Dynamic virtual clusters in a grid site manager

JS Chase, DE Irwin, LE Gik, JD Moore, - 2003 - computer.org

[\[PDF\] from psu.edu](#)

... longstanding assumption that software en- vironments and applications are bound to specific **computer** systems that ... The **node** configuration cost—which is on the order of seconds, or minutes for a ... long runs of **resource**- intensive applications, which are typical in a **grid** setting. ...

Cited by 252 - Related articles - All 48 versions

Nimrod/G: An architecture for a resource management and scheduling system in a global computational grid

R Buyya, D Abramson, - hpc, 2000 - computer.org

[\[PDF\] from arxiv.org](#)

... School of Computer Science and ... The current version also uses these services along with the new features (such as Grid Directory Information Services) supported by the ... clusters of computers (such as Beowulf-class Linux clusters) it is common for only the master **node** to be ...

Cited by 895 - Related articles - All 48 versions

From virtualized resources to virtual computing grids: the In-VIGO system

S Adabaia, V Chandra, P Chawla, - ... Generation Computer, .. 2005 - Elsevier

[\[PDF\] from psu.edu](#)

... As a distributed computing system that includes processing **nodes**, storage devices, networks, software applications, and user ... and finally recover the results using a laptop or from a public **computer** of an ... In In-VIGO entails: (1) the installation of a tool in **grid**-enabled resources, (2 ...

Cited by 169 - Related articles - All 20 versions

High performance parametric modeling with Nimrod/G: Killer application for the global grid?

D Abramson, J Gridy, - Parallel and Distributed, .. 2002 - ieeeexplore.ieee.org

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... the file transfer commands, as well as the execution of the model on the remote **node**. ... Accordingly, it is not possible to consider the Grid as a single **computer** system under the control ... understanding of its problem domain as well as the nature of the computational Grid to provide ...

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A taxonomy and survey of grid resource management systems for distributed computing

K Krauter, R Buyya, - Software: Practice and ..., 2002 - Wiley Online Library

[\[PDF\] from psu.edu](#)

... INTRODUCTION A distributed network computing (NC) system is a virtual **computer** formed by a networked set of heterogeneous machines that agree to share their local resources with each other. ... Hard QoS support is provided when all **nodes** in the Grid can police the SLAs ...

Cited by 583 - Related articles - BL Direct - All 38 versions

Virtual workspaces: Achieving quality of service and quality of life in the grid

K Kearney, J Foster, T Frohenm, - Scientific Programming, 2005 - IOS Press

[\[PDF\] from psu.edu](#)

... a Math & Computer Science Division, Argonne National Laboratory, Argonne, IL 60439, USA b University of ... site-provided installa- tion available as a workspace is providing access to Grid clients. ... in a relatively coarse-grained manner allocating the num- ber of **nodes** or amount ...

Cited by 161 - Related articles - BL Direct - All 12 versions

Grid information services for distributed resource sharing

K Czajkowski, S Fitzgerald, J Foster, - High Performance ..., 2002 - ieeeexplore.ieee.org

[\[PDF\] from psu.edu](#)

... A superscheduler routes computational requests to the "best" available **computer** in a Grid ... VO- neutral infrastructure providing access to detailed, dynamic information about Grid entities. ... for a compute **resource** might provide information about the number of **nodes**, amount of ...

Cited by 1462 - Related articles - All 57 versions

Resource co-allocation in computational grids

P Czajkowski, J Foster, - ..., 1999 - Proceedings The ..., 2002 - ieeeexplore.ieee.org

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... the purposes of this discussion, we model the suc- cessful execution of a **computer** program as ... Grid applications typically operate on ensembles of re- sources that span administrative domains of ... is in general unreliable, due to either competing demands for the **resource** or out ...

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